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(54) Title: CARBON NANOTUBE FILMS, LAYERS, FABRICS, RIBBONS, ELEMENTS AND ARTICLES

(57) **Abstract:** Carbon Nanotube Films, Layers, Fabrics, Ribbons, Elements and Articles are disclosed. To make various articles, certain embodiments provide a substrate. Preformed nanotubes are applied to a surface of the substrate to create a non-woven fabric of carbon nanotubes. Portions of the non-woven fabric are selectively removed according to a defined pattern to create the article. To make a nanofabric, a substrate is provided. Preformed nanotubes are applied to a surface of the substrate to create a non-woven fabric of carbon nanotubes wherein the non-woven fabric is substantially uniform density. The nanofabrics and articles have characteristics desirable for various electrical systems such as memory circuits and conductive traces and pads.







































































































































































